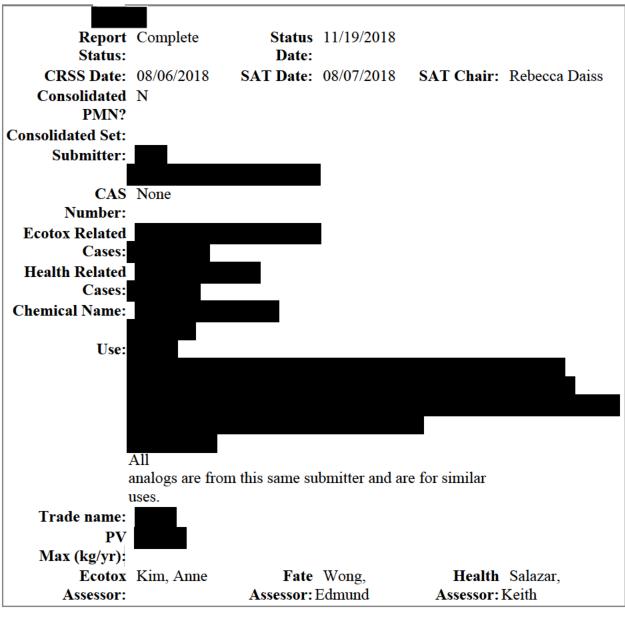
SAT Report for Case # P-18-0261

General



Physical Chemical Information

Molecular Weight:	Physical State - Neat:		
Percent 500:	Percent 1000:		
Melting Point	Melting	MPD (EPI):	
(Measured):	Point (est):		
Vapor	Vapor	<0.000001 VP	
Pressure:	Pressure	(EPI):	
	(est):		
Water	Water	<0.000001/Reacts Water	
Solubility:	Solubility	Solubility	
	(EST):	(EPI):	
Log		Log	
Kow:		Kow (EPI):	
Log	Log P		
P:	Comment:		

SAT Concern

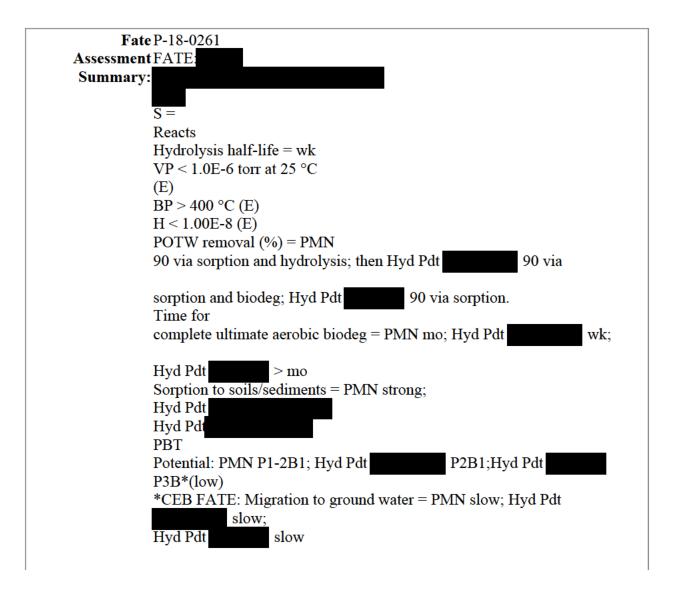
Ecotox Rating 1	Ecotox	
(1):	Rating	
	Comment	
	(1):	
Ecotox	Ecotox	
Rating (2):	Rating	
	Comment	
	(2):	
Health Rating 1-2	Health	
(1):	Rating	
	Comment	
	(1):	
Health Rating	Health	
(2):	Rating	
	Comment	
	(2):	

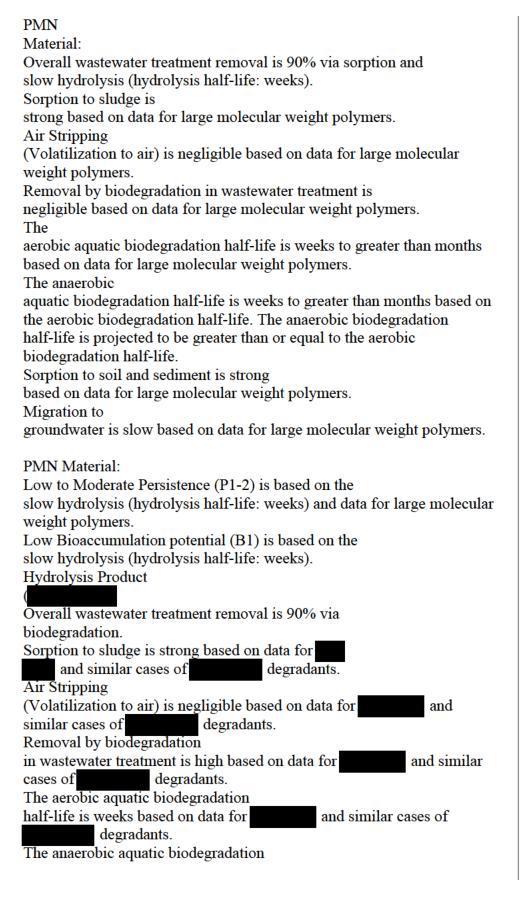
PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
1-2	1	1	PMN
2	1	1	

Persistence	Bioaccumulation	Toxicity	Comments
3	*	1	Hyd Pdt Hyd Pdt B*(low)

Exposure
Based Review
(Health)?
Exposure Based N
Review
(Ecotox)?
SAT LUNG
Keywords:





half-life is months based on the aerobic biodegradation half-life. The anaerobic biodegradation half-life is projected to be greater or equal to the aerobic biodegradation half-life.

Sorption to soil and sediment is strong based on data for	
and similar cases of degradants.	
Migration to	
groundwater is slow based on data for and similar cases of)
degradants.	
Hydrolysis Product (
Moderate Persistence (P2) is based on the estimated anaerobic	
biodegradation half-life and data for	
Low	
Bioaccumulation potential (B1) is based on data for	
addition to metabolism.	
Hydrolysis Product	
:	
Overall wastewater treatment removal is 90% via sorption.	

Sorption to sludge is strong based on data for metal oxides Air

Stripping (Volatilization to air) is negligible based on data for metal oxides

Removal by biodegradation in wastewater treatment is negligible based on data for metal oxides

The aerobic aquatic biodegradation

half-life is greater than months based on data for metal oxides. The

anaerobic aquatic biodegradation half-life is greater than months based on the aerobic biodegradation half-life. The anaerobic biodegradation half-life is projected to be greater or equal to the aerobic biodegradation half-life.

Sorption to soil and sediment is strong based on data for metal oxides

Migration to groundwater is slow based on data for metal oxides

Hydrolysis Product High Persistence (P3) is based

on the estimated anaerobic biodegradation half-life and data for metal oxides.

Bioaccumulation potential (B*-low) is based on data for metal oxides. The substance does not fit in the standard framework of the model.

Bioconcentration/Bioaccumulation factor to be put into E-Fast:

Removal in 90;90;90 PMN;Hyd Pdt WWT/POTW Pdt (Overall):

Condition	Rating Values w/ Rating	Comment
	Description	
WWT/POTW	3;3;3	PMN;Hyd Pdt
Sorption:		Hyd Pdt
WWT/POTW	4;4;4	PMN;Hyd Pdt Hyd Pdt
Stripping:		
Biodegradation	4;2;4	PMN;Hyd Pdt
Removal:		Hyd Pdt
Biodegradation		
Destruction:		DOLLY IN
Aerobic Biodeg	3;2;4	PMN;Hyd Pdt Hyd Pdt
Ult:		
Aerobic Biodeg Prim:		
	2.2.4	DV DV 111 D 14
Anaerobic Biodeg Ult:	3;3;4	PMN;Hyd Pdt Hyd Pdt
Anaerobic Biodeg		
Prim:		
Hydrolysis (t1/2	3.5	
at pH 7,25C) A:	5.5	
Hydrolysis (t1/2		
at pH 7,25C) B:		
Sorption to	2;2;2	PMN;Hyd
Soils/Sediments:		Pdt Hyd Pdt
Migration to	2;2;2	PMN;Hyd
Ground Water:		Pdt Hyd Pdt
Photolysis A,		
Direct:		
Photolysis B,		
Indirect:		
Atmospheric Ox		
A, OH:		
Atmospheric Ox		
B, O3:		

Health

Assessment

Health Summary: Expect poor to nil absorption via all routes (pchem). Concern for lung toxicity if inhaled based on lung overload for respirable, poorly soluble particulates.

Routes Inhalation

of Exposure:

Test Data Submitted

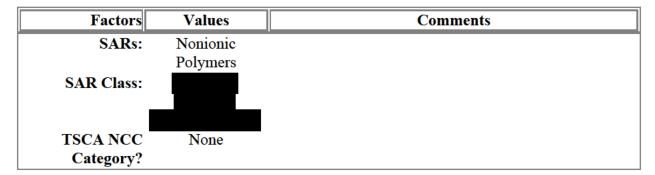
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Ecotox Assessment

Test organism	Test	Test	Predicted	Measured	Comments
	Type	Endpoint			
Fish	96-h	LC50	*		
Daphnid	48 -h	LC50	*		
Green Algae	96 -h	EC50	*		
Fish	-	Chronic	*		
		Value			
Daphnid	-	Chronic	*		
		Value			
Green Algae	-	Chronic	*		
		Value			

Factors	Most Sensitive Endpoint	Assessment Factor	СоС	Comment
Acute		5	*	
Acquatic: Chronic Acquatic:		10	*	

Ecotox Route of No
Exposure? releases to water



Recommended

Testing

None.

Ecotox

Value Comments

Predictions are based on SARs for nonionic polymers (insoluble); with a an unknown MP (P); S = negligible (P), reacts slowly (M); effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150 mg/L as CaCO3; and TOC <2.0 mg/L.

Ecotox Factors

Comments

Environment Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risks because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance.

estimated environmental hazard of this new chemical substance using hazard data on analogous chemicals. Based on these hazard values, EPA concludes that this chemical substance has low environmental hazard.

- Substance does not fall within a TSCA New Chemicals Category.
- SAR chemical class of Nonionic

Polymers-insoluble.

• PMN and LMW fraction low hazard based on acute and chronic COCs no effects at saturation.

Environmental Risk:

• Risks were not identified for ecotoxicity.